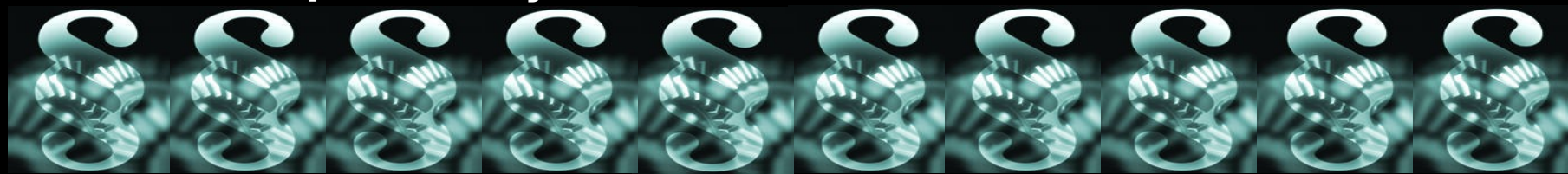
Environmental Management Systems Awareness Training

USAG Mannheim – prepared for Garrison

Environmental Management System (EMS)

- EMS is
  - **A framework for managing all of our environmental responsibilities so they become more integrated into overall operations;**
  - **A management process;**
  - **Must be used to provide value to the organization;**
  - **A tool to help the Community stay in compliance with legislated and voluntary environmental requirements, and to continuously improve its overall environmental performance;**
  - **A Garrison Commander's program but everyone's responsibility.**



Environmental Management System (EMS)

- Traditional Philosophy
  - **Meet environmental regulatory requirements to avoid negative consequences – do what's required.**
- New Philosophy
  - **Anticipate potential problem areas and proactively implement positive improvements.**

- Example
  - **Leaving the lights on during the night is a waste of energy!**
  - **Turn the lights off before you leave your in the evening.**

Why do we need EMS in the Army??

- Executive Order 13423, signed by President George W. Bush, requires all U.S. government organizations to implement an EMS.

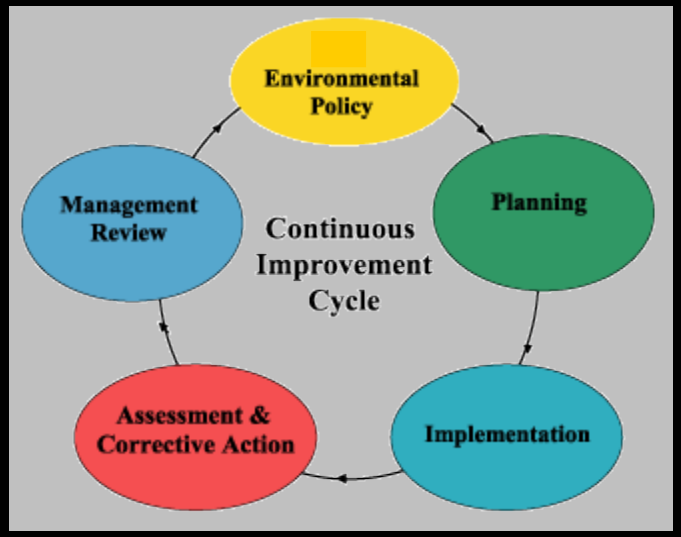
- EMS will
  - **Improve continuous compliance**
  - **Promote sustainable operations**
  - **Reduce long term costs.**

ISO 14001

- The International Organization for Standardization (ISO) has created ISO 14001 to specify global contents and requirements for an Environmental Management System.
- ISO 14001 is voluntarily followed by many private companies and organizations (e.g. Daimler Chrysler, City of Heidelberg, etc.)

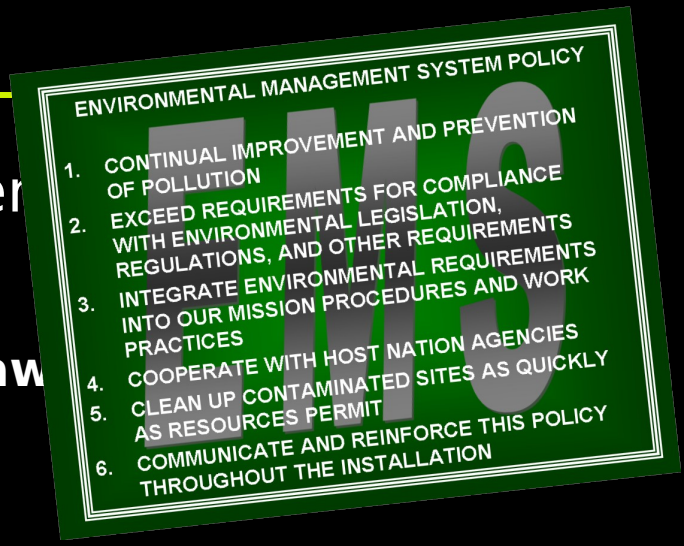
Major Components:

- **Environmental Policy**
- **Planning**
- **Implementation and Operation**
- **Checking and Corrective Action**



Environmental Policy

- Commander's environmental stater
- Garrison's commitment to
  - **Compliance with environmental law**
  - **Pollution Prevention;**
  - **Continual Improvement;**
  - **Cooperation with host nation agencies.**


ENVIRONMENTAL MANAGEMENT SYSTEM POLICY
1. CONTINUAL IMPROVEMENT AND PREVENTION OF POLLUTION
2. EXCEED REQUIREMENTS FOR COMPLIANCE WITH ENVIRONMENTAL LEGISLATION, REGULATIONS, AND OTHER REQUIREMENTS
3. INTEGRATE ENVIRONMENTAL REQUIREMENTS INTO OUR MISSION PROCEDURES AND WORK PRACTICES
4. COOPERATE WITH HOST NATION AGENCIES
5. CLEAN UP CONTAMINATED SITES AS QUICKLY AS RESOURCES PERMIT
6. COMMUNICATE AND REINFORCE THIS POLICY THROUGHOUT THE INSTALLATION
EMS

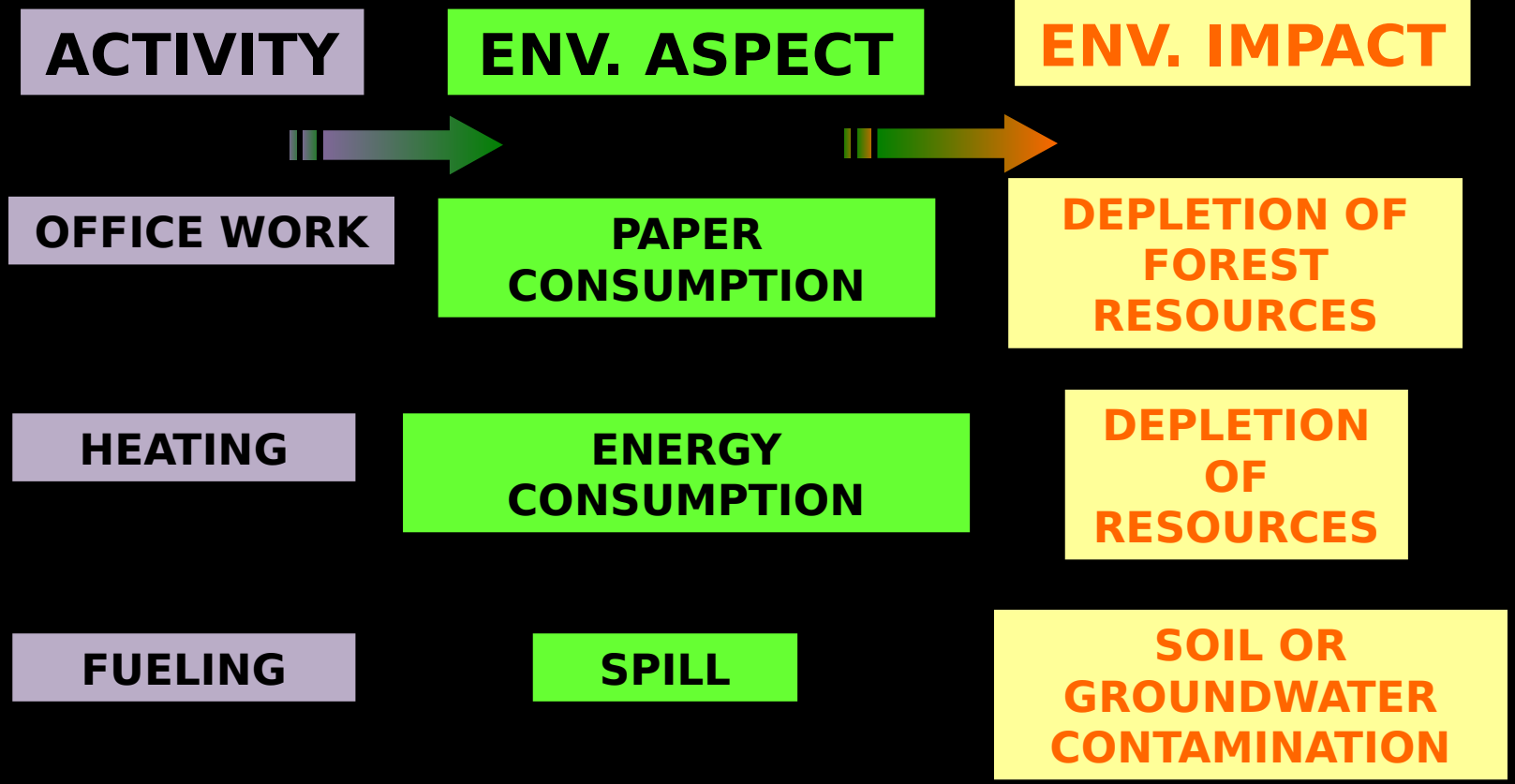
- Everyone within the Mannheim Military Community needs to know and follow this policy!
  - **Remember your "Just-Do-It"-Card!**

Planning (1)

- Env. Aspect: Activity or part of an activity that interacts with the environment.
- Env. Impact: Change to the environment (positive or negative).

- Identification of Environmental Aspects and Impacts.
- Know how your work can impact the environment.
- EMS aims to minimize negative environmental impacts.

Planning (2)


ACTIVITY
ENV. ASPECT
ENV. IMPACT
OFFICE WORK
PAPER CONSUMPTION
DEPLETION OF FOREST RESOURCES
HEATING
ENERGY CONSUMPTION
DEPLETION OF RESOURCES
FUELING
SPILL
SOIL OR GROUNDWATER CONTAMINATION

Aspects and Impacts (1)

Significant Aspect – Heat/Electricity

Impact - Depletion of natural resources

- Turn off lights in the office/at home whenever possible.
- Don’t leave windows or outside doors open while heating or operating the AC. Don’t overheat rooms.
- Switch off monitor of the PC.
- Unplug equipment when not in use.
- Purchase energy-efficient equipment.

Aspects and Impacts (2)

Significant Aspect – Generation of Solid Waste

Impact – Disposal of Solid Waste

- Separate your household and workplace trash.
- Follow the recycling guide.
- Use paper bins and yellow bags.
- Help the USAG to save money (more than 1 Mill. $ a year can be saved by recycling).

Aspects and Impacts (3)

Aspect – Use of drinking water

Impact – Depletion of water resources

- Use water sparingly.
- Report water leaks to the Service Order Desk at DSN 381-8797/8798.
- Use car wash facilities to wash POVs. In Germany it is illegal to wash cars in your driveway.

The Garrison's Environmental Goals

- Overall objective: Reduce negative environmental impacts!
- Specific targets:
  - Continuously increase the recycling rate.
  - Reduce paper use by encouraging double-sided printing.
  - Reduce energy consumption by 2% each year.

EMS Implementation and Operation (1)

- **Communication**
  - **Report environmental incidents.**
  - **Do you know where to obtain environmental information?**
  - **USAG Mannheim Environmental Website**

  http://home.mannheim.army.mil/sites/directorates/DPW_web/Environmental.htm)

EMS Implementation and Operation (2)

- **Document/Record Control**
  - **Do you know which environmental records you need to keep?**
  - **How long do you need to store them?**
  - **Do you know where to find environmental requirements?**
  - **Document Control System available at EMD.**

- **Records:**
  - **Keep inspection reports, training documents, etc.**

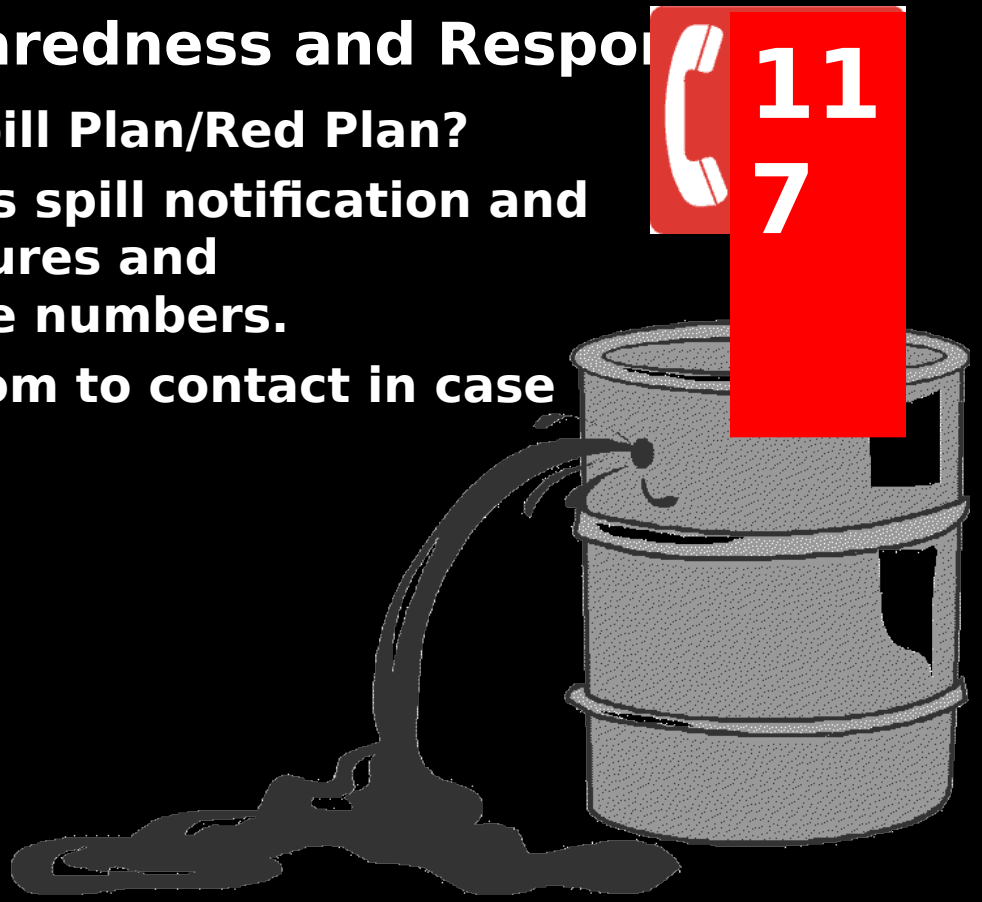
- **Documents:**
  - **Environmental SOP, Environmental Policy, etc.**

EMS Implementation and Operation (3)

- **Operational Controls**
  - **Do you have an environmental SOP in your department?**
  - **Do you know where to find it?**
  - **Did you read and understand it?**
  - **Did you send it to EMD?**

EMS Implementation and Operation (4)

- **Emergency Preparedness and Respo**
  - **Do you have a Spill Plan/Red Plan?**
  - **Red Plan contains spill notification and response procedures and emergency phone numbers.**
  - **Do you know whom to contact in case of a spill?**



Checking and Corrective Action (1)

- **Monitoring/Measurement**
  - **Which environmentally critical activities need to be monitored?**
  - **Where and how often do you need to conduct inspections?**
  - **Make sure recycling and energy saving is an important issue in your department.**

Hazardous Materials/Waste Storage Areas

•Weekly inspections!

Checking and Corrective Action (2)

- **EPAS (Environmental Performance Assessment System for checking legal compliance) and other external inspections/assessments**
  - **Are you prepared?**
  - **Do you know how to react to findings?**
  - **How do you correct deficiencies?**
  - **How do you prevent them from happening again?**
  - **Do you keep records?**

Consequences

- **What are the consequences of not following environmental laws and regulations?**
  - **Increase of pollution, risk of spills, waste generation**
  - **Degradation of soil and groundwater**
  - **Depletion of natural resources**
  - **Inspection Findings**
  - **Monetary fines**
  - **Notice of Violation (NOV)**

Roles & Responsibilities

- Know policy's key points.
- Know significant aspects that affect your activities.
- Contact EMD for questions of legal compliance.
- Understand objectives and support them.
- EMSMR – Deputy Commander USAG Mannheim.
- Attend EMS training (records are maintained at EMD).
- Communicate external requests to EMD, PAO.
- Know how to find documents, request changes, archive records.
- Know whom to call and which action to take in the event of an emergency.
- Record, submit monitoring/measurement data.
- Request and conduct corrective actions, determine root causes.
- Know and follow SOPs.
- Correct audit findings applicable to your work area.
- Provide data/information for management review when needed.

Environmental Contact Information

- **Chief Environmental**
  - **Mary K. Foley: 381-8675**
- **Emissions**
  - **Yitbarek Gebreyohannes: 381-7699**
- **Hazardous Material/Hazardous Waste**
  - **Sabine Fellhauer: 381-8447**
- **Tank Management**
  - **Franz Schork: 381-7035**
- **SORT, Recycling, Solid Waste**
  - **Wolfgang Ziegler: 381-7029**
- **Natural- & Cultural Resources, Asbestos**
  - **Bernd Weinerth: 381-7007**
- **Energy Manager**
  - **Kurt Marx: 381-8927**
- **Pollution Prevention**
  - **Ulrike Martin: 381-7405**
- **Environmental Management System (EMS)**
  - **Irene Bürkle: 381-7414**

QUESTIONS?